

# Master of Technology in Rock Engineering and Underground Structures

Department of Civil Engineering

## The overall credits structure

Category	PC	PE	OC	Total
Credits	36	12	0	48

### Program Core

CVD810	Major Project Part-I			0	0	12	6
CVD811	Major Project Part-II			0	0	24	12
CVL710	Engineering Properties of Rocks and Rock Masses			3	0	0	3
CVL711	Structural Geology			3	0	0	3
CVL712	Slopes and Foundations			3	0	0	3
CVL713	Analysis and Design of Underground Structures			3	0	0	3
CVP710	Rock Mechanics Laboratory-I			0	0	6	3
CVP810	Rock Mechanics Laboratory-II			0	0	6	3
<b>Total Credits</b>				<b>36</b>			

### Program Electives

CVD710	Minor Project			0	0	6	3
CVL714	Field Exploration and Geotechnical Processes			3	0	0	3
CVL715	Excavation Methods and Underground Space Technology			3	0	0	3
CVL716	Environmental Rock Engineering			3	0	0	3
CVL810	Emerging Topics in Rock Engineering and Underground Structures			3	0	0	3
CVL811	Numerical and Computer Methods in Geomechanics			3	0	0	3
CVS810	Independent Study			0	0	6	3

Sem.	Courses (Number, abbreviated title, L-T-P, credits)						Lecture courses	Contact h/week				Credits
	L	T	P	Total	L	T		P	Total			
I	CVL710 Engineering Properties of Rocks and Rock Masses (3-0-0) 3	CVL711 Structural Geology (3-0-0) 3	CVP710 Rock Mechanics Laboratory-I (0-0-6) 3	PE-1 (3-0-0) 3			3	9	0	6	15	12
II	CVL712 Slopes and Foundations (3-0-0) 3	CVL713 Analysis and Design of Underground Structures (3-0-0) 3	CVP810 Rock Mechanics Laboratory-II (0-0-6) 3	PE-2 (3-0-0) 3	PE-3 (3-0-0) 3		4	12	0	6	18	15
Summer												
III	CVD810 Major Project Part-I (0-0-12) 6	PE-4 (3-0-0) 3					1	3	0	12	15	9
IV	CVD811 Major Project Part-II (0-0-24) 12						0	0	0	24	24	12

**Total = 48**